INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/34713

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : F42B 12/40				
US CL	: 102/513	ional electification and IPC		
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation scarched (classification system followed by classification symbols) U.S.: 102/513				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *			Relevant to claim No.	
Α	US 2002/0134055A1 (MARTINEZ) 26 Sep. 2002 (26.09.2002)		1-32	
Α	US 5018450 (SMITH) 28 May 1991 (28.05.1991), whole document.		1-32	
From b co	decuments are listed in the continuation of Poy C	See patent family annex.		
		national Gling data as ariarity		
Special categories of cited documents:		date and not in conflict with the applica principle or theory underlying the inven	tion but cited to understand the	
particular relevance				
"E" earlier application or patent published on or after the international filing date		"X" document of particular relevance; the cl considered novel or cannot be considered when the document is taken alone		
"L" document which may throw doubts on priority claim(s) or which is cited to			latino di tanoni tana ari sora bis	
establish (specified)	the publication date of another citation or other special reason (as	"Y" document of particular relevance; the cl considered to involve an inventive step	when the document is combined	
		with one or more other such documents obvious to a person skilled in the art		
"O" document referring to an oral disclosure, use, exhibition or other means				
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed				
Date of the ac	ctual completion of the international search	Date of mailing of the international searc	h report	
12 May 2003 (12.03.2003)				
	niling address of the ISA/US	Authorized officer		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Troy Chambers		
P.O. Box 1450				
Alexandria, Virginia 22313-1450 Telephone No. 571-272-3600				
Facsimile No. (703) 305-3230				

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international scarch can be carried out, specifically:			
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows:			
 As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: 			
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.			

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